

AMENDMENT

Please amend claim 10 as follows:

Claim 10 (currently amended) 10. A curing light as recited in claim 5 wherein ~~said at least one wall of~~ at least one well includes a material selected from the group consisting of Al, Au, Ag, Zn, Cu, Pt, chrome, metal, plating and plastic.

CLAIM LISTING

A complete list of the claims is as follows:

Claim 1 (previously amended) 1. A curing light comprising:
a wand adapted to be grasped by a human hand for use in positioning and manipulating
the curing light,
a light module,
said light module including a secondary heat sink, said secondary heat sink being
configured to assist in heat dissipation,
a primary heat sink affixed to said secondary heat sink,
a major well on said primary heat sink,
a plurality of primary wells located in said major well,
an array of light emitting semiconductor chips, said semiconductor chips being mounted
on said primary heat sink, at least some of said semiconductor chips being located in said
primary wells.

Claim 2 (original) 2. A curing light as recited in claim 1 further comprising a cover over
said major well, said cover serving to protect said semiconductor chips, and said cover
permitting light emitted by said semiconductor chips to pass through said cover.

Claim 3 (original) 3. A curing light comprising:
a wand adapted to be grasped by a human hand for use in positioning and manipulating
the curing light,
a light module,
said light module including a secondary heat sink, said secondary heat sink being
configured to assist in heat dissipation,
a primary heat sink affixed to said secondary heat sink,
a plurality of wells located on said primary heat sink,

an array of light emitting semiconductor chips, at least some of said chips being mounted in said wells of said primary heat sink.

Claim 4 (original) 4. A curing light as recited in claim 3 further comprising at least one cover serving to cover at least one of said chips.

Claim 5 (previously amended) 5. A curing light comprising:

 a wand adapted to be grasped by a human hand for use in manipulating the curing light,
 a power supply for supplying power to the curing light,
 a housing serving to protect the curing light,
 an elongate heat sink with a proximal end and a distal end, said elongate heat sink having a longitudinal axis defined between said proximal end and said distal end,
 primary heat sink affixed to said elongate heat sink,
 a major well located on said primary heat sink,
 a plurality of primary wells located in said major well, and
 an array of light emitting semiconductor chips affixed to said primary heat sink in said primary wells.

Claim 6 (previously cancelled).

Claim 7 (previously cancelled).

Claim 8 (original) 8. A curing light as recited in claim 5 wherein said chips are mounted by use of a heat conductive adhesive.

Claim 9 (original) 9. A curing light as recited in claim 5 wherein said chips are mounted by use of a light reflective adhesive.

Claim 10 (currently amended) 10. A curing light as recited in claim 5 wherein ~~said at least one wall of~~ at least one well includes a material selected from the group consisting of Al,

Au, Ag, Zn, Cu, Pt, chrome, metal, plating and plastic.

Claim 11 (previously amended) 11. A curing light comprising:
 a secondary heat sink,
 a semiconductor chip module affixed to said secondary heat sink, said semiconductor chip module including
 a primary heat sink,
 a major well on said primary heat sink,
 a plurality of primary wells located in said major well,
 an array of semiconductor chips at least some of which are located in said primary wells, said semiconductor chips being capable of emitting a light useful for curing composite materials mounted to said primary heat sink, and
 a cover that provides protective covering for said semiconductor chips and which permits light emitted by said semiconductor chips to pass through it to provide light useful for curing composite materials.

Claim 12 (original) 12. A curing light as recited in claim 11 wherein at least one of said semiconductor chips is selected from the group consisting of light emitting diode chips, laser chips, light emitting diode chip array, diode laser chips, diode laser chip array, surface emitting laser chips, edge emitting laser chips, and VCSEL chips.

Claim 13 (previously amended) 13. A curing light comprising:
 a wand adapted to be grasped and manipulated by a human hand,
 a battery power source located within said wand,
 electronic control circuitry located within said wand,
 a light module, said light module including an elongate heat sink with a proximal end and a distal end, said proximal end being proximate said wand, said elongate heat sink having a longitudinal axis, and elongate heat sink being adapted to draw heat away from a semiconductor located at said elongate heat sink distal end,

a mounting location located at said elongate heat sink distal end,
an array of semiconductor chip modules located at said mounting location, at least one
of said semiconductor chip modules including
a primary heat sink mounted to said elongate heat sink at said mounting location,
a semiconductor chip capable of emitting light useful for curing light activated composite
materials mounted to said primary heat sink, and
a cover that provides protective covering for said semiconductor chip and which permits
light emitted by said semiconductor chip to pass through it to provide light useful for curing
composite materials;

wherein said mounting location is oriented so that when a light emitting semiconductor
device is mounted on it, light emitted by the light emitting semiconductor device will be emitted
generally orthogonal to said elongate heat sink longitudinal axis.

Claim 14 (original) 14. A curing light as recited in claim 13 wherein said semiconductor
chip is selected from the group consisting of light emitting diode chips, laser chips, light emitting
diode chip array, diode laser chips, diode laser chip array, surface emitting laser chips, edge
emitting laser chips, and VCSEL chips.

Claim 15 (original) 15. A curing light as recited in claim 13 further comprising a switch on
said wand for initiating emission of light from said semiconductor chip.

Claim 16 (cancelled).

Claim 17 (original) 17. A curing light as recited in claim 13 further comprising a well in
said primary heat sink, said chip being located in said well, said well including a reflective wall,
said reflective wall including a material selected from the group consisting of Al, Au, Ag, Zn, Cu,
Pt, chrome, metal, plating and plastic.

Claim 18 (original) 18. A curing light as recited in claim 13 wherein said cover is selected

from the group consisting of windows and focus lenses.

Claim 19 (previously amended) 19. A curing light comprising:
 a wand designed to be grasped by a human hand,
 controls for initiating and terminating light transmission by the curing light,
 circuitry in electrical connection with said controls,
 a power source for powering the curing light,
 a light module, said light module including:
 a secondary heat sink,
 a primary heat sink attached to said secondary heat sink,
 a major well on said primary heat sink,
 a plurality of primary wells located in said major well,
 an array of light emitting semiconductor devices, at least some of said light emitting semiconductor devices being mounted to said primary heat sink in said primary wells.

Claim 20 (original) 20. A curing light as recited in claim 19 wherein at least one of said semiconductor devices is selected from the group consisting of light emitting diode chips, laser chips, light emitting diode chip array, diode laser chips, diode laser chip array, surface emitting laser chips, edge emitting laser chips, and VCSEL chips.